

**WIRELESS MOBILE DEVICES HAVING IMPROVED OPERATION
DURING NETWORK UNAVAILABILITY**

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ABSTRACT OF THE DISCLOSURE

Improved techniques for reducing delays faced by users of mobile
10 devices due to unavailability of wireless networks are disclosed. The
techniques facilitate the reduction of delays faced by users of mobile devices
during unavailability of wireless networks. A first technique allows mobile
devices to communicate with remote servers using asynchronous
communications, namely asynchronous requests. Such asynchronous
15 communications allow the processing at a mobile device to continue while the
asynchronous request is processed in the background. A second technique
pertains to the use of content channels with mobile devices. The content
channels are stored and retained in cache memory so that their resources
are guaranteed to be locally available, regardless of availability of wireless
20 networks. A third technique pertains to improved list processing within mobile
devices such that lists can be manipulated without server interaction. These
various techniques can be used separately or in combination.